

### **ABSTRACT**

An electropolishing pad adapted for thinning a layer on a substrate, without damaging a delicate underlying layer in the substrate. The electropolishing pad includes a pad formed of an electrically conductive material, for applying a desired voltage potential through the electropolishing pad to electrolytically erode the layer on the substrate. An operating surface on the pad physically erodes the layer on the substrate. The operating surface has a roughness that is not so great as to create friction sufficient to induce a shearing force that damages the delicate underlying layer in the substrate, but great enough so as to physically erode the layer on the substrate.

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